CLAIMS

1. A method for generating an ultrashort pulse, comprising the steps of:

converting a laser pulse once into a laser pulse having another wavelength;

reconverting the laser pulse having another wavelength into a laser pulse having an initial wavelength to improve the contrast at a front part of the pulse; and

amplifying the pulse by a laser to generate an ultrashort pulse.

2. The method for generating an ultrashort pulse according to claim 1, wherein

the laser is an excimer laser.

3. The method for generating an ultrashort pulse according to claim 2, wherein

the laser pulse is converted into a pulse having another wavelength by performing stimulated Raman scattering; and

the reconversion of the pulse to a pulse having the initial wavelength is performed by performing four-wave mixing.

4. The method for generating an ultrashort pulse according to claim 1, wherein

the amplification of the pulse is saturation amplification.

5. An ultrashort pulse generating apparatus, wherein

a laser pulse is once converted into a laser pulse having another wavelength;

the laser pulse having another wavelength is reconverted into a laser pulse having an initial wavelength to improve the contrast at a front part of the pulse; and

the pulse is amplified by a laser to generate an ultrashort pulse.

6. The ultrashort pulse generating apparatus according to claim 5, wherein

the laser is an excimer laser.

7. The ultrashort pulse generating apparatus according to claim 5, wherein

the laser pulse is converted into a pulse having another wavelength by performing stimulated Raman scattering; and

the reconversion of the pulse to a pulse having the initial wavelength is performed by performing four-wave mixing.

8. The ultrashort pulse generating apparatus according to claim 5, wherein

the amplification of the pulse is saturation amplification.